AMENDMENTS TO THE CLAIMS

1-15. (Cancelled)

16. (New) A communication process comprising:

dummy-picturing a predetermined number of first order original data which vary from each other according to a first parameter so as to combine the predetermined number of first order original data into dummy pictured data including a plurality of second order data which vary from each other according to the first parameter and a second parameter;

highly compressing the dummy pictured data by a picture compression treatment;

transmitting the dummy pictured data compressed in said highly compressing of the dummy pictured data;

reproducing the dummy pictured data transmitted in said transmitting of the dummy pictured data; and

dividing the dummy pictured data into the predetermined number of first order original data so as to reproduce the original data.

17. (New) The communication process according to claim 16, wherein the first parameter is a frequency of each of the first order original data, and the second parameter is time.

18. (New) A communication process comprising:

dummy-picturing a predetermined number of first order original data including important information about characteristic curves of the first order original data, which vary from each other according to a first parameter, so as to combine the predetermined number of first order signal data into dummy pictured data including a plurality of second order data which vary from each other according to the first parameter and a second parameter;

highly compressing the dummy pictured data by a picture compression treatment;

transmitting the dummy pictured data compressed in said highly compressing of the dummy pictured data;

reproducing the dummy pictured data transmitted in said transmitting of the dummy pictured data; and

dividing the dummy pictured data reproduced in said reproducing of the dummy pictured data into the predetermined number of first order original data so as to reproduce the original data.

19. (New) The communication process according to claim 18, wherein the first parameter is a frequency of each of the first order original data, and the second parameter is time.

20. (New) A communication process for observing a plant which is located at a remote site, said communication process comprising:

dummy-picturing a predetermined number of first order original data including important information about characteristic curves of the first order original data, which vary from each other according to a first parameter, so as to combine the predetermined number of first order signal data into dummy pictured data including a plurality of second order data which vary from each other according to the first parameter and a second parameter;

highly compressing the dummy pictured data by a picture compression treatment;

transmitting the dummy pictured data compressed in said highly compressing of the dummy pictured data;

reproducing the dummy pictured data transmitted in said transmitting of the dummy pictured data; and

dividing the dummy pictured data compressed in said compressing of the dummy pictured data into the predetermined number of first order original data so as to reproduce the original data.

21. (New) The communication process according to claim 20, wherein the first parameter is a frequency of each of the first order original data, and the second parameter is time.

22. (New) A data compression process for transmitting data from a transmitting site to a remote site, said data compression process comprising:

dummy picturing a predetermined number of the data, which are first order original data and which vary from each other according to a first parameter, so as to combine the predetermined number of first order original data, at the transmitting site, into dummy pictured data including a plurality of second order data which vary from each other according to the first parameter and a second parameter;

highly compressing the dummy pictured data by a picture compression treatment,

transmitting the dummy pictured data compressed in said highly compressing of the dummy pictured data to a receiving site,

recovering the dummy pictured data received at the receiving site so as to reproduce the dummy pictured data, and

dividing the dummy picture data into the predetermined number of first order original data.

23. (New) The data compression process according to claim 22, wherein the first parameter is a frequency of each of the first order original data, and the second parameter is time.

24. (New) A data compression process for transmitting data including important information about characteristic curves to a remote site from a transmitting site, said data compression process comprising:

dummy picturing a predetermined number of the data, which are first order original data and which vary from each other according to a first parameter, so as to combine the predetermined number of first order original data, at the transmitting site, into dummy pictured data including a plurality of second order data which vary from each other according to the first parameter and a second parameter;

highly compressing the dummy pictured data by a picture compression treatment,

transmitting the dummy pictured data compressed in said highly compressing of the dummy pictured data to a receiving site,

recovering the dummy pictured data received at the receiving site so as to reproduce the dummy pictured data, and

dividing the dummy picture data into the predetermined number of first order original data.

25. (New) The data compression process according to claim 24, wherein the first parameter is a frequency of each of the first order original data, and the second parameter is time.

26. (New) A data compression process for transmitting data including important information about characteristic curves of the data which is observed at a plant located at a remote site from a transmitting site to the remote site, said data compression process comprising:

dummy picturing a predetermined number of the data, which are first order original data and which vary from each other according to a first parameter, so as to combine the predetermined number of first order original data, at the transmitting site, into dummy pictured data including a plurality of second order data which vary from each other according to the first parameter and a second parameter;

highly compressing the dummy pictured data by a picture compression treatment,

transmitting the dummy pictured data compressed in said highly compressing of the dummy pictured data to a receiving site,

recovering the dummy pictured data received at the receiving site so as to reproduce the dummy pictured data, and

dividing the dummy picture data into the predetermined number of first order original data.

27. (New) The data compression process according to claim 26, wherein the first parameter is a frequency of each of the first order original data, and the second parameter is time.

28. (New) A method for compressing and transmitting data, said method comprising:

dummy-picturing a predetermined number of first order original data which vary from each other according to a first parameter so as to combine the predetermined number of first order original data into dummy pictured data including a plurality of second order data which vary from each other according to the first parameter and a second parameter; and

highly compressing the dummy pictured data by a picture compression treatment.

29. (New) The method according to claim 28, wherein the first parameter is a frequency of each of the first order original data, and the second parameter is time.

30. (New) A method for compressing and transmitting data including important information about characteristic curves of the data, said method comprising:

dummy-picturing a predetermined number of first order original data including important information about characteristic curves of the first order original data, which vary from each other according to a first parameter, so as to combine the predetermined number of first order signal data into dummy pictured data including a plurality of second order data which vary from each other according to the first parameter and a second parameter; and

highly compressing the dummy pictured data by a picture compression treatment.

31. (New) The method according to claim 30, wherein the first parameter is a frequency of each of the first order original data, and the second parameter is time.

32. (New) A method for compressing and transmitting data including important information about characteristic curves of the data which is observed at a plant located at a remote site from a transmitting site to the remote site, said method comprising:

dummy picturing a predetermined number of the data, which are first order original data and which vary from each other according to a first parameter, so as to combine the predetermined number of first order original data into dummy pictured data including a plurality of second order data which vary from each other according to the first parameter and a second parameter; and

highly compressing the dummy pictured data by a picture compression treatment.

33. (New) The method according to claim 32, wherein the first parameter is a frequency of each of the first order original data, and the second parameter is time.

34. (New) A method for recovering data comprising:

receiving a compressed dummy picture so as to recover a dummy picture, the dummy picture including a plurality of second order data which vary from each other according to a first parameter and a second parameter, and the dummy picture resulting from combining a predetermined number of first order original data which vary from each other according to the first parameter;

reproducing dummy pictured data; and

reproducing the original data by dividing the dummy pictured data reproduced in said reproducing of the dummy pictured data into the predetermined number of first order original data.

35. (New) The method according to claim 34, wherein the first parameter is a frequency of each of the first order original data, and the second parameter is time.

36. (New) A method for recovering data including important information about characteristic curves of the data, said method comprising:

receiving compressed dummy pictured data so as to recover the dummy pictured data, the dummy picture including a plurality of second order data which vary from each other according to a first parameter and a second parameter, and the dummy picture resulting from combining a predetermined number of first order original data which vary from each other according to the first parameter;

reproducing dummy pictured data; and

reproducing the original data by dividing the dummy pictured data reproduced in said reproducing of the dummy pictured data into the predetermined number of first order original data.

37. (New) The method according to claim 36, wherein the first parameter is a frequency of each of the first order original data, and the second parameter is time.

38. (New) A method for recovering data including important information about characteristic curves of the data observed at a plant which is located at a remote site, said method comprising:

receiving compressed dummy pictured data so as to recover the dummy pictured data, the dummy picture including a plurality of second order data which vary from each other according to a first parameter and a second parameter, and the dummy picture resulting from combining a predetermined number of first order original data which vary from each other according to the first parameter;

reproducing dummy pictured data; and

reproducing the original data by dividing the dummy pictured data reproduced in said reproducing of the dummy pictured data into the predetermined number of first order original data.

39. (New) The method according to claim 38, wherein the first parameter is a frequency of each of the first order original data, and the second parameter is time.